

04C0
04/12/2001
OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/810,936

DATE: 04/02/2001

TIME: 11 01:45

Input Set : A:\419c11.app.txt

Output Set: N:\CRF3\04022001\I810936.raw

ENTERED

```

3 <110> APPLICANT: Frudakis, Tony N.
4   Reed, Steven G.
5   Smith, John M.
6   Misher, Linda E.
7   Dillon, Davin C.
8   Retter, Marc W.
9   Wang, Aijun
10  Skeiky, Yasir A.W.
11  Harlocker, Susan L.
12  Day, Craig H.
16 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
17   THERAPY AND DIAGNOSIS OF BREAST CANCER
20 <130> FILE REFERENCE: 210121.419C11
C--> 22 <140> CURRENT APPLICATION NUMBER: US/09/810,936
23 <141> CURRENT FILING DATE: 2001-03-16
26 <160> NUMBER OF SEQ ID NOS: 334
28 <170> SOFTWARE: FastSEQ for Windows Version 3.0
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32 <212> TYPE: DNA
33 <213> ORGANISM: Homo sapien
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37   aacgatttcc acgggtatct cctcgtgggt attcagggag ctgccagaa acctataaac      120
38   ttgtctaagg cgattgaagt cgtccagggg catgatgagt caccaggagt gtttttagag      180
39   cactccagg aggettatcg gatttacacc ccttttgacc tggcagcccc cgaaaatagc      240
40   catgctctta atttggcatt tgtggctcag gcagcccag atagtaaaag gaaactccaa      300
41   aaatagagg gattttgctg gaatgaatac cagtcagctt ttagagatag cctaaaaggt      360
42   ttt
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45 <211> LENGTH: 121
46 <212> TYPE: PRT
47 <213> ORGANISM: Homo sapien
49 <400> SEQUENCE: 2
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51   1           5           10           15
52   Gly Arg Thr Phe Asp Asp Phe His Arg Tyr Leu Leu Val Gly Ile Gln
53           20           25           30
54   Gly Ala Ala Gln Lys Pro Ile Asn Leu Ser Lys Ala Ile Glu Val Val
55           35           40           45
56   Gln Gly His Asp Glu Ser Pro Gly Val Phe Leu Glu His Leu Gln Glu
57           50           55           60
58   Ala Tyr Arg Ile Tyr Thr Pro Phe Asp Leu Ala Ala Pro Glu Asn Ser
59           65           70           75           80
60   His Ala Leu Asn Leu Ala Phe Val Ala Gln Ala Ala Pro Asp Ser Lys
61           85           90           95
62   Arg Lys Leu Gln Lys Leu Glu Gly Phe Cys Trp Asn Glu Tyr Gln Ser

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63          100          105          110
64 Ala Phe Arg Asp Ser Leu Lys Gly Phe
65          115          120
67 >110> SEQ ID NO: 3
68 >111> LENGTH: 1080
69 >112> TYPE: DNA
70 >113> ORGANISM: Homo sapien
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73 >121> NAME/KEY: misc_feature
74 >122> LOCATION: (1)...(1080)
75 >123> OTHER INFORMATION: n = A,T,C or G
77 >400> SEQUENCE: 3
78 tcttagaattc ttcataccccc gaactcttgg gaaaacttta atcagtcacc tacagtctac 60
79 gaccatttta ggaggagcaa agctacctca gctcctccgg agccgtttta agatccccc 120
80 tcttcaaagc ctaacagatc aagcagctct ccggtgcaca acctgcgcc aggtaaatgc 180
81 caaaaaaggc cctaaaccca gccagggcca ccgtctccaa gaaaactcac caggagaaaa 240
82 gtgagaaatt gactttacag aagtaaaacc acaccggggt gggtagaaat acctcttagt 300
83 actggttagc acctctctct gatggaactg agcatttgc accaaaaac aaactgtcaa 360
84 tatgttagtt aagtttttac tcaatgaaat catccctcga cgtgggctgc ctgttgccat 420
85 aggtctctgat aatggaacgg ccttcgcctt gtctatagtt taatcagtc gtaaggcggt 480
86 aaatattcaa tggaaagctc attgtgccta tcgacccaga gctctgggca agtagaacgc 540
87 atgaactgca cctaaaaaaa acactcttac aaaattaatc ttaaaaaacc gtgttaattg 600
88 tgttagttct ctcccttag cctacttag agttaagggt cacccttaa tgggtgggt 660
W--> 89 tctttacctt ttgaaatcat ntttnggaag gggctgccta tcttttctta actaaaaaan 720
W--> 90 gccattttgg caaaaatttc ncaactaatt tntacgtnc tacgtctccc caacagggtan 780
W--> 91 aaaaaactnc tgcccttttc aaggaacctc ccatccatt cctnaacaaa aggcctgccn 840
W--> 92 ttctccccc agttaactnt tttttnttaa aattcccaaa aaangaaccn cctgctggaa 900
W--> 93 aaacncccc cccaanccc cgccnaagn ggaaggttcc ctggaatccc nccccncna 960
W--> 94 anggcccgga acctntaaan tngttccngg gggtnnggcc taaaagnccn atttggtaaa 1020
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104 >122> LOCATION: (1)...(1087)
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109 caagtaggcc ctttaaaact ctcacctgtg ttgtcttcta atttattctg ttttattttg 120
110 tttccatcat ttttaagggc taaaatcacc ttgttcagac ctcagcatat aaaatgacc 180
111 atctgttagc ctcaggctcc aaccataccc caagagttgt ctggttttgt ttaattact 240
112 gccaggtttc agctgcagat atccctggaa ggaatattcc agattccctg agtagtttcc 300
113 aggtttaaaat cctataggct tcttctgttt tgagggaagag ttcctgtcag agaaaaacat 360
114 gattttggat ttttaacttt aatgtttgtg aaacgtata aaaaaaattt tctacccta 420
115 gctttaaagt actgttagtg agaaattaaa attccttcag gaggattaaa ctgccatttc 480
116 agttacccta attccaaatg ttttggtggt tagaatcttc tttaatgttc ttgaagaagt 540
W--> 117 gttttatatt ttcccatcna gataaattct ctcnccctt nttttntnt ctntttttt 600

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 PATENT APPLICATION: US/09/810,936 DATE 04/02/2001
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Input Set : A:\419c11.app.txt
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W--> 118   aaaacggant   ctgtctcgt   tgtecanget   gggaattttt   ttttggccaa   tctccgctnc   660
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W--> 120   acctggaatt   anaggecccc   ncccccccc   cggetaattt   gtttttgttt   ttagtaaaaa   780
W--> 121   acgggtttcc   tgttttagtt   aggatggccc   anntctgacc   cntnatent   cccctcngc   840
W--> 122   cctcnaatnt   tnggnntang   gcttaccccc   ccngnnngtt   tttcctccat   tnaaattttc   900
W--> 123   tntggantct   tgaatnnccg   gttttccctt   ttaaaccnat   tttttttttt   nnncccccna   960
W--> 124   ttttncctcc   ccctntnta   anggggggtt   cccaanccgg   gtcnccccc   angtccccaa   1020
W--> 125   tttttctccc   cccccctctt   ttttctttnc   cccaaaante   ctatcttttc   cttnnaatat   1080
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129 <211> LENGTH: 1010
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131 <213> ORGANISM: Homo sapien
133 <220> FEATURE:
134 <221> NAME/KEY: misc_feature
135 <222> LOCATION: (1)...(1010)
136 <223> OTHER INFORMATION: n = A,T,C or G
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140   agtaaacatt   ctccacagtt   tatgcaaaaa   gtaacaaaac   cactgcagat   gacaaacact   120
141   aggtaacaca   catactatct   cccaaatacc   taccacaag   ctcaacaatt   ttaaaactgtt   180
142   aggatcactg   gctctaatca   ccattgacatg   aggtcaccac   caaaccatca   agcgtataaac   240
143   agatagaatg   ttccactcc   tgatccactg   tgtgggaaga   agcaccgaac   ttaccactg   300
W--> 144   gggggcctgc   ntcanaanaa   aagcccatgc   cccgggtnt   nctttnaac   cggaacgaat   360
W--> 145   naaccaccca   tccccacanc   tctctgttc   ntgggcctg   catcttggtg   cctctnttnc   420
W--> 146   tttnngggan   acntggggaa   ggtaccccat   ttcttgacc   cncnanaaa   acccngtgg   480
W--> 147   cctttgccc   tgattcnent   gggcettttc   tcttttccct   tttgggttgt   ttaaattccc   540
W--> 148   aatgtcccn   gaacctctc   cntnctgccc   aaaacctacc   taaattnctc   nctangnntt   600
W--> 149   ttcttggtgt   tntttttcaa   aggtnacctt   nctgttcan   ncccnacnaa   aatttnttcc   660
W--> 150   ntatnntggn   ccnnaaaaaa   nnnatcnnc   cnaattgccc   gaattggtn   ggttttccct   720
W--> 151   nctgggggaa   accctttaaa   tttcccccct   ggccggcccc   ccttttttcc   ccccttnga   780
W--> 152   aggcaggngg   ttcttcccca   acttccaatt   ncaacagcnc   tgcccattgn   tgaaaccctt   840
W--> 153   ttctaaaaat   taaaaaatan   ccggttnngg   nnggcctctt   tccctccng   gngggngng   900
W--> 154   aaantcctta   cccnnaaaaa   gggtgcttag   ccccngtcc   ccactcccc   nggaaaaatn   960
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159 <212> TYPE: DNA
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162 <220> FEATURE:
163 <221> NAME/KEY: misc_feature
164 <222> LOCATION: (1)...(950)
165 <223> OTHER INFORMATION: n = A,T,C or G
167 <400> SEQUENCE: 6
168   tctagagctc   gcggccgcga   gctctaatac   gactcactat   agggcgctga   ctgatctca   60
169   gctcactgca   atctctgccc   cgggggtcat   gcgattctcc   tgctcagcc   ttccaagtag   120
170   ctgggattac   aggcgtgcaa   caccacaccc   ggctaatttt   gtatttttaa   tagagatggg   180
W--> 171   gttttccctt   gttggccann   atggtctcna   accctgacc   tcnngtgatc   ccccncccn   240
W--> 172   ngantcenna   ctgctgggga   tnnccgnnnn   nnnctcccn   ncnnnnnnnn   ncnntccn   300

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W--> 173  tnnctcttnc tennnnnnnn cnntcnntcc nnetctctnc cennntntnt cenncnccnn 360
W--> 174  cennccnct ncccnennnt tcnctcnncn tntcenncn nntcenncn cennnctnn 420
W--> 175  cennctacnt nttnnnennnt cctctctnn cctcnnenn cctcnnent tntctctcn 480
W--> 176  nttnnnnnct cennnnntct ctnccnnnn tncctennn ncccncccc cctcnnenn 540
W--> 177  ctntttttnn cennnnntcc ntncctttn nntcennnn cnnctcnn nntttnttc 600
W--> 178  ccccnnttc ctnccnctn nntntcnnn cctcnnctc ntttctctt nntcccnnc 660
W--> 179  tcnnttcncc cennctccc ccccnctnt ctctcncnn nntnnntnn nnnctcnc 720
W--> 180  tntcncttc nctnnctnt tctntcnnn ncnntcnc tncctntnt ctntnnctn 780
W--> 181  tcnctntcn cctccttn ctnctctcn tntctctcc ctcnctnct cttcncnc 840
W--> 182  cennntntn tnnccnnt nctnnnnnc ctnctttn tctctctnn nntnnctc 900
W--> 183  ncccnctcc ctnntcnc nctntaccn tctctctcn tctctctcc 950
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186 <211> LENGTH: 1086
187 <212> TYPE: DNA
188 <213> ORGANISM: Homo sapien
189 <220> FEATURE:
191 <221> NAME/KEY: misc_feature
192 <222> LOCATION: (1)...(1086)
193 <223> OTHER INFORMATION: n = A,T,C or G
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197  ctcttactgt gtctatgtag aaagaagtag acataagaga ttccattttg ttctgtacta 120
198  agaaaaatc ttctgcttg agatgctgtt aatctgtaac cctagcccc aacctgtgct 180
199  cctagagaca tgtgctgtgt tgaactcaag ttcaatggat ttagggtat gctttgttaa 240
200  aaaaagtgtt gaagataata tgcctgttaa aagtcacac cttctctaa tctcaagta 300
201  cctagggcac aatacactgc ggaagccgc agggacctct gtctaggaaa gccaggtatt 360
202  gtccaagatt tctcccatg tgatagcctg agataggcc tcatgggaag ggtaagacct 420
203  gactgtccc cagcccgaca tcccacgac cagacctccc cagcccgaca cccgaaaagg 480
W--> 204  gtctgtgctg aggaagatta ntaaaagagg aaggctcttt gcattgaagt aagaagaagg 540
205  ctctgtctcc tgcctgctcc tgggcaataa aatgtcttg tgtaaaccc gaatgtatgt 600
206  tctacttact gagaatagga gaaaacatcc ttagggtgg aggtgagaca cctggcggc 660
W--> 207  atactgctct ttaatgcacg agatgtttgt ntaattgcc tccagggcc ncccccttc 720
W--> 208  ttaacttttt atganacaaa aactttgttc nctttctct cgaacctct cccctattan 780
W--> 209  cctattggcc tgcctatccc ctcccaaan ggtgaaaana tgttcntaaa tncgaggga 840
W--> 210  tccaaaacnt ttcccgctt gtcctcttc caaccccgct cctgggcnn ttctctccc 900
W--> 211  aactgtccc ggntccttn tcccncccc cttccngan aaaaaaccc gnttganggn 960
W--> 212  gccccctcaa attataacct tccnaaaca aannngttn aaggtggtt gnttcgggt 1020
W--> 213  cggtggcct tgaggctccc cctncccc aatttggaan cngtttttt ttattgccc 1080
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223 <222> LOCATION: (1)...(1177)
224 <223> OTHER INFORMATION: n = A,T,C or G
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128 aagpatcctg gagtateaga gtttactgtt agatcagcct catttgaett cccctcccac 120
129 atggtgttta aatccagcta cactacttcc tgactcaaac tccactatcc ctgttcatga 180
130 ctgttcaggaa ctgtttgaaa ctactgaaac tgcccgacct gatcttcaaa atgtgcccct 240
W--> 231 aggaaagggt gatgccaccg tgttcacaga cagtaccncc ttctctgaga agggactacg 300
W--> 232 aggggcccgt gcanctgtta ccaaggagac tnatgtgttg tgggctcagg ctttaccanc 360
W--> 233 aaacacctca ncnennaagg ctgaattgat cgcctcact caggctctcg gatggggtaa 420
234 gggatattaa cgttaaacact gacagcaggt acgcctttgc tactgtgcac gtaactggag 480
W--> 235 ccactatacca ggagcgtggg ctactcactc ggcaggtggc tgnatccac tgtaaangga 540
W--> 236 catcaaaagg aaaacnnggc tgttgcccgt ggttaaccana aancgtgaten ncagctcnaa 600
W--> 237 gatgctgtgt tgactttcac tcnncctct taaacttget gccacacntc tcttttccca 660
W--> 238 accagatctg cctgacaatc cccatactca aaaaaaaaaa aanactggcc ccgaaccena 720
W--> 239 accaataaaa acggggangg tnggtnganc nncctgacce aaaaaataat gatcccccg 780
W--> 240 gctgcaggaa tcaattcan ccttatenat acccccacn ngngggggg ggcngtnc 840
W--> 241 cattnccct ntattnatte tttnncccc ccccggent cctttttnaa ctctgaaag 900
W--> 242 gaaaaacctg ncttaccan tttncctcg gacntcccc ttccnccgtg gnttanaaaa 960
W--> 243 aaaagccenc antccntcc naaatttgca cngaaaggna aggaatttaa cttttatttt 1020
W--> 244 ttnntccttt antttgtnnn ccccttttta cccagcgcaa cngccatent ttaanaaaaa 1080
W--> 245 aaanagaang tttatttttc cttngaacca tcccaatana aancaccgc nggggaacgg 1140
W--> 246 gnggnaggc cncctacccc cttntgtng gngggnc 1177
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249 <211> LENGTH: 1146
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251 <213> ORGANISM: Homo sapien
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255 <223> OTHER INFORMATION: n = A,T,C or G
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260 gaaaagggtc aaaaggagct gttgacagtc atcccagggtg ggccaatgtg tccagagtac 120
261 agactccatc agtgagggtca aagcctgggg cttttcagag aaggagggat tatgggtttt 180
262 ccaattatac aagtcagaag tagaaagaag ggacataaac caggaagggg gtggagcact 240
263 catcacccag agggacttgt gcctctctca gtggtagtag aggggctact tctcccacc 300
W--> 264 acggttgcaa ccaagaggca atgggtgatg agcctacagg ggacatancc gaggagacat 360
265 gggatgacct taagggagta ggctggtttt aaggcgggtg gactgggtga gggaaactct 420
266 cctcttcttc agagagaagc agtacagggc gagctgaacc ggctgaaggc cgaggcgaaa 480
267 acacgggtctg gctcaggaag accttggaag taaaattatg aatggtgcac gaatggagcc 540
268 atggaagggg tgctcctgac caaactcagc cattgatcaa tgttagggaa actgatcagg 600
269 gaagccggga atttcattaa caaccggcca cacagcttga acattgtgag gttcagtgac 660
W--> 270 ccttcaaggg gccactccac tccaactttg gccattctac tttgnaaat ttccaaaact 720
W--> 271 tcttttttta aggcgaatc entantccct naaaaaacna aaaaaatctg cncctattct 780
W--> 272 ggaagggcc cancccttac caggctggaa gaaattttnc cttttttttt tttttgaagg 840
W--> 273 cntttnttaa attgaacctn aattncccc cccaaaaaaa aaccncncng gggggcggt 900
W--> 274 ttccaaaaac naattccctt accaaaaaac aaaaaccenc cctntttccc ttcnccctn 960
W--> 275 ttcttttaat tagggagaga tnaagcccc caatttcng gntngatnn gtttcccccc 1020
W--> 276 ccccatttt cnaaaacttt tcccancna ggaancnc cttttttng gtengattna 1080
W--> 277 ncaaccttcc aaaccatttt tcennaaaaa ntttgntng ngggaaaaa acctntttt 1140
W--> 278 atagan 1146
280 <210> SEQ ID NO: 10

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

DATE: 04/02/2001

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Input Set : A:\419c11.app.txt

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L:22 M:270 C: Current Application Number differs, Wrong Format

L:84 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 3
L:90 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 3
L:91 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 3
L:92 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 3
L:93 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 3
L:94 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 3
L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 3
L:117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 4
L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 4
L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 4
L:120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 4
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 4
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 4
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 4
L:124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 4
L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 4
L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 4
L:144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 5
L:145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 5
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L:147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 5
L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 5
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L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 5
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 5
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L:155 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 5
L:171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6
L:172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6
L:173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6
L:175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6
L:176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6
L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6
L:178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6
L:179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6
L:180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6
L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6
L:182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6
L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6
L:204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 7
L:207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 7
L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 7
L:209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 7
L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 7

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/810,936

DATE: 04/02/2001

TIME: 11:01:46

Input Set : A:\419c11.app.txt

Output Set: N:\CRF3\04022001\I810936.raw

L:211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7